

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/594,586
Filing Date: June 15, 2000
Applicant: Joseph M. CANNON et al.
Group Art Unit: 2618
Examiner: Marceau Milord
Title: METHODS AND SYSTEMS FOR CONFIGURING WIRELESS
DEVICES
Attorney Docket: 129250-000910/US

Customer Service Window
Randolph Building
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Alexandria, VA 22314
Mail Stop Amendment

July 2, 2009

DECLARATION OF JOSEPH M. CANNON

SIR/MADAM:

I. Joseph M. Cannon, hereby declare:

1. I am a joint inventor of the subject matter disclosed and claimed in U.S. Patent Application No. 09/594,586 filed on June 15, 2000.

2. The subject matter of the presently rejected claims was conceived at least as early as January 3, 2000 and due diligence was exercised continuously from January 3, 2000 until June 15, 2000. During the entire period between January 3, 2000 and June 15, 2000 I and my joint inventors completed activities that were directly related to attaining a reduction to practice of the

subject matter of the claims, activities that included working with our patent attorney to file the instant patent application.

3. Attached are copies of the original Invention Disclosure documents, dated January 3, 2000.

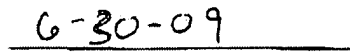
4. The title of the original Invention Disclosure document is "Microelectronics Patent Committee Invention Submission". On the top right there is a textual block entitled "IP LAW USE". In this block the "Submission No.", "Date Received" and IP "Attorney" responsible for the submission are given. The Date Received is "1/3/00" or January 3, 2000. On the very top under the heading "Name(s) of Submitters" are listed the inventors. Listed are myself, Philip D. Mooney and James A. Johanson.

5. Paragraph 3 on page 1 of the Invention Disclosure document (and elsewhere) sets forth a method for configuring a wireless device comprising accessing an Internet Protocol (IP)-based network (e.g., "manufacturer's Internet web page"), displaying settings of a separate wireless device (e.g., "entering their phone # or account # he or she would be able to customize their phone (i.e., address books, ring types, caller ID based options) at this remote location") and transmitting selected settings to a wireless service provider via the IP-based network (see reference to cellular service providers throughout the Invention Disclosure document) which I and my joint inventors conceived as early as January 3, 2000 and then through the exercise of continuous due diligence from January 3, 2000 until June 15, 2000, I and my joint inventors completed further design and development activities directly related to attaining a reduction to practice of the subject matter set forth in the Invention Disclosure and the claims.

6. I further state that all statements made herein to my own knowledge are true and that all statements made herein on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such any willful false statements may jeopardize the validity of the application or any registration resulting therefrom.



Joseph M. Cannon



Dated

MICROELECTRONICS PATENT COMMITTEE INVENTION SUBMISSION

Name(s) of Submitters	Telephone No:	Loc/Room	SBU/Org. Title:	HR ID:	E-Mail Address
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TITLE: Remote Configuration of Wireless Telephone Products

IP LAW USE	
Submission No:	<u>121936</u>
Date Received:	<u>11/3/00</u>
Attorney:	<u>J. P. V. Schi</u>

Important Notes: (1) Keep in mind that your submission should be written so it can be understood in 5 to 10 minutes by a generalist.

Avoid the use of undefined acronyms and jargon. Keep the language simple. (2) Have any of the above submitter(s) discussed this invention with, or provided an invention submission

disclosing this invention to, an attorney other than the recipient of this invention submission? YES X NO

1. Describe the problem your invention solves:

As cordless and cellular telephones provide more customizable features, User's manuals and setup menus are getting more and more complicated. Additionally, if a user purchases two or more of these identical products; there is no way to setup one phone and have the setup copied to any additional phones.

2. Based on information of which you are already aware, describe:

(i) previous attempts to solve the problem your invention solves:
LCD menu systems and User's manual

(ii) the disadvantages of the previous attempts:

LCD menus are on a per phone basis, and need to be repeated for each phone. User's manuals are getting so big that more and ~~many~~ more users do not read them.

3. Summarize (30 words or less) the new feature(s) of your invention that solve the problem:

This is a process patent invention that allows for wireless telephone configurations to be set up remotely. This process would include the user going to a manufacturer's Internet web page, where by entering their phone # or account # ~~he~~ ^{she} they would be able to customize their phone (i.e. address books, ring types, caller ID based options, etc...) at this remote location. This invention also allows for configuring your phone via e-mail, another phone, or another remote device such as a PDA.

4. Succinctly describe your invention, referring to drawings, sketches, photographs, etc., in sufficient detail to enable one knowledgeable in the invention's field of technology to understand construction and operation of the invention. Drawings, etc., should show only those features necessary for an understanding of the invention. Describe how/why your invention overcomes the disadvantages noted in 2. (ii) above.

Wireless phones (cordless and cellular) have become very feature rich, and this directly translates into a more complicated configuration process. Telephone manufacturers have developed elaborate User's Manuals and menu schemes to allow for

*** Provide the information requested in this box on each page of the submission, as well as drawings, sketches, photographs, etc. ***

Submitter(s) signature(s) and date:

This invention submission has been read and understood by the following two witnesses:

_____	date	_____	date
_____	date	_____	date
_____	date		

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the user to exercise all of the phone's features as easily as possible. However, as more and more features arrive; this customization will only get even more difficult for the manufacturer to make user friendly.

Features such as Caller Announcement, Caller ID based ringing, Caller ID based OGMs, Caller ID based Announcements, and ever-changing area codes require the user to change the configurations at an ever-increasing rate. Phone manufacturers previously did not expect the users to change their configurations very frequently, but today it is not the case.

It is desirable for a phone manufacturer to provide the user with the ability to enter and change all configuration data as easily as possible. It is also desirable for a phone manufacturer to provide the user with the ability to copy such configurations across multiple phones, (especially if they are identical models), but even if they are not. This invention is primarily focused on the process of providing a web page that would allow for the phone manufacturer to meet these desires. The phone manufacturer would store all relevant setup data based on the user's phone number or account number. The user could simply go to the designated web page, enter the phone number, an access code, and then be provided with the ability to easily change any and all setup parameters. These parameters could be changed from any location that provides Internet access.

If the user owns a cellular phone, the manufacturer would update the user's phone with the new parameters via a data link, such as that which currently exists on digital cellular phones.

If the user owns a cordless phone, the manufacturer would update the user's phone with the new parameters via a dial in connection to the phone's modem.

Updating of new data could be automatic, scheduled, and/or setup to retry at a designated rate until the update is complete. The manufacturer could even e-mail the user with the status of the update.

The phone manufacturer (or third party vendor) could provide the user with the ability to copy a configuration from an existing account. This option could also be just for a part of a configuration (i.e. address book).

Although, the primary process interface is a web page; it is also part of this to provide for the ability to update configurations via e-mail. This could be done by having a template e-mail with entries for configuration changes. There could be features within an e-mail editor to do a "Quick Address" in which a new contact could be easily e-mailed to your phone. Once the e-mail is sent, the Phone will be called and the user can download changes.

Alternatively, Also it is possible to copy one phone's configuration to another phone via a direct link between the two units. As an example:

- A user has entered the desired configuration on his cellular phone.
- Stepping through all the menus to get the phone address book, and all the other configuration parameters the way he wants it has taken about 30 minutes.
- He also has just purchased the same cellular phone for his wife for Christmas.
- She does not want to take the time to configure her cell phone, but she likes how his was configured.
- Now the husband doesn't really want to have to re-enter all the same info again. Therefore, he goes to his cellular phone; finds the menu item to "COPY SETUP".
- Next it asks for what phone number, so he enters his wife's cell phone number.

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_____	date	_____	date
_____	date		

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- Once he enters the option his phone makes a connection with this wife's phone (e.g. rf link directly, rf link through the service provider, IR link, or other means).
- She receives a text message prompting for a configuration change. She can accept or reject this request.
- If accepted, the data is transferred and the setup is completed.
- Otherwise the configuration is not transferred.
- The husband sees a status message on his phone (ex. TRANSFER DENIED, TRANSFER IN PROGRESS, TRANSFER COMPLETE).
- The link is torn down once the transfer is denied or completed.

An alternative implementation would be through an automated voice prompt system where data is entered via touch-tone keys.

5. Advantages of your invention:

- Adds a tremendous amount of user-friendliness to phone manufacturer's products
- Allows for remote configuration of feature rich phones via web pages
- Allows for remote configuration of feature rich phones via e-mail
- Allows for remote configuration of feature rich phones via a direct connection between 2 phones
- Allows for easy configuration of identical phones, without having to repeat data entry.
- Cellular Service Providers (Bell Atlantic Mobil, Cellular One, etc.) can offer this as a selling point to use their service.
- Enables user to maintain minimal knowledge of phone setup and enables another to maintain features remotely.
- Adds value to Lucent's cell phones and wireless provider equipment.

6. Explain how use of your invention would be detected:

Feature would be clearly advertised on the box or by the service provider as a big selling point.

*** Provide the information requested in this box on each page of the submission, as well as drawings, sketches, photographs, etc. ***

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